

HAKAN OKAY

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RELEVANT EXPERIENCE

Software Developer

Feb 2023 – Present

Freelance/Contractor

Ottawa, ON

- Engineered and optimized end-to-end machine learning pipelines utilizing Python, Docker, BigQuery, XGBoost, Scikit-learn for predicting conversion likelihood from user-generated events
- Implemented and deployed secure, scalable APIs to the cloud for the trained machine learning models using Docker, FastAPI, Google Cloud Run, and Google Container Registry
- Enhanced CRM data workflows by establishing cloud-based data warehousing on virtual machine databases, orchestrating scheduled updates with Linux, Python, Pandas, and Bash on Google Compute Engine
- Performed data mining using Scrapy and Selenium to streamline and fortify data collection, providing a reliable foundation for robust data analysis
- Transformed raw data into actionable insights by designing interactive dashboards with tools like Looker and Google Data Studio, empowering businesses with valuable visualizations

Data Scientist

Mar 2022 – Feb 2023

Datablast - datablast.io

Istanbul, Turkey (Remote)

Datablast is a B2B SaaS startup that empowers data teams with cloud infrastructure to efficiently manage data pipelines using Airflow and Kubernetes

- Developed data ingestion operators, backend endpoints, and performed cloud model deployment using modern tooling, delivering well-documented, unit-tested code within an Agile framework
- Engaged in strategic partnerships with leading game development firms across Europe, delivering actionable insights via data analytics, engineering, and machine learning pipelines ([Ruby](#), [Joygame](#), [Rovio](#))
- Engineered endpoints to drive user retention, optimize applications through A/B testing, and enable data-driven decision-making within the Blast Data Platform, resulting in remarkable application growths of up to 30%
- Designed and maintained Big Data ETL\ELT pipelines for cleaning, processing, and managing ~2 million daily generated rows of data, Python, Airflow, Amazon Athena & S3, Google BigQuery/Storage, and Snowflake for efficient data warehousing

TECHNICAL SKILLS

Programming Languages: Python, SQL (various flavours), Java, HTML/CSS/JavaScript, Typescript, NoSQL

Libraries & Frameworks: pandas, NumPy, Matplotlib, Scikit-learn, FastAPI, React, Next.js, Node, Express, Tailwind

Tools & Platforms: Linux, Git, GitHub, MongoDB, Docker, Airflow, Google Cloud, Looker, Metabase, Excel

PROJECTS

Blast Data Platform Python | SQL | Airflow | Kubernetes | Docker | GCP | Laravel | FastAPI | Linux | Firebase | Jinja | Vue.js

- I worked as a Data/Backend Engineer on this startup. Data teams can easily create and manage data pipelines on the cloud, use code comments to create DAGs, and run headless scripts and supports various cloud data warehouses.

Conversion Forecast HTML/CSS/JavaScript | Python | SQL | PHP | Bash | Docker | Scikit-learn | Tensorflow | GCP | FastAPI

- I worked as a Freelance Data Scientist/Backend Engineer on this project. I implemented frontend and backend of the web application as well as trained AI models that serves predictions using FastAPI from a GCP endpoint.

EDUCATION

Algonquin College of Applied Arts and Technology

Ottawa, ON

Diploma in Computer Programming | Dean's Honours List | GPA 3.98/4.0

Sep 2022 – Dec 2023

Miuul & Data Science Academy

Uppsala, Sweden (Remote)

Certificate in Data Science and Machine Learning | Final Project Hackathon (1st place)

Dec 2021 – Mar 2022

Canakkale Onsekiz Mart University

Canakkale, Turkey

Master's Degree in Engineering | Success Scholarship | GPA 3.86/4.0

Feb 2021 – Feb 2024

Akdeniz University

Antalya, Turkey

Bachelor's Degree in Engineering | Erasmus+ Student Exchange Programme

Sep 2014 – Sep 2019